

AMENDMENTS TO THE CLAIMS**Listing of Claims**

1 1. (Currently amended) A hydrokinetic torque converter, comprising:
2 a housing rotatable about a predetermined axis; a friction lining associated with
3 said housing and shaped as a ring bounded by an inner circular border and an
4 outer circular border; a pump rotatable by said housing about said axis; a turbine
5 rotatable in said housing about said axis by and relative to said pump; means for
6 rotating said housing; an output element rotatable about said axis and arranged
7 to receive torque from said turbine; a fluid-operated bypass clutch arranged to
8 transmit variable torque between said housing and said output element
9 independently of said turbine, said clutch including a first part rotatable with said
10 housing, a second part rotatable with said output element, and friction generating
11 means operable to transmit torque between said parts with and without slip with
12 attendant generation of friction heat during operation with slip; first and second
13 plenum chambers containing bodies of hydraulic fluid at variable pressure with
14 the provision for fluid flow between said chambers past said friction generating
15 means, wherein said housing includes a cooling surface which engages said
16 clutch and includes radially directed grooves configured in the manner of rays
17 which terminate outside an outer radial border and originate from an inner circle
18 radially inside an said inner radial circular border and which terminate at an outer
19 circle radially outside said outer circular border of a friction lining associated with
20 said housing.

1 2. (Original) The torque converter of claim 1, further comprising
2 torsional vibration damping means operating between said first part and at least
3 one of said second part, said turbine and said output element.

1 3. (Original) The torque converter of claim 1, further comprising a
2 stator provided in said housing intermediate said pump and said turbine.

Claims 4-120 (Canceled)

1 121. (Previously presented) A method of cooling an engageable and
2 disengageable bypass clutch which is installed in the rotary housing of a
3 hydrokinetic torque converter and has coaxial rotary driving and driven
4 components which frictionally engage each other when the clutch is at least
5 partly engaged, such partial engagement involving a slip of said components
6 relative to each other, comprising the steps of: providing in the housing first and
7 second plenum chambers and maintaining therein bodies of hydraulic fluid
8 arranged to at least partly engage the clutch in response to the establishment of
9 a pressure differential between said bodies; establishing at least one path for the
10 flow of fluid between said chambers by way of the clutch, at least in the partly
11 engaged condition of the clutch; and actively regulating the flow of fluid along the
12 at least one path in dependency upon friction torque between friction surfaces of
13 said driving and driven components.

1 122. (Previously presented) The method of claim 121, wherein said
2 regulating step includes increasing the rate of fluid flow along the at least one
3 path when the clutch operates with slip and reducing said rate of fluid flow when
4 the clutch operates without slip.

Claims 123-127 (canceled)

1 128. (Currently amended) A hydrokinetic The torque converter of
2 claim 1, comprising: a housing rotatable about a predetermined axis; a pump
3 rotatable by said housing about said axis; a turbine rotatable in said housing
4 about said axis by and relative to said pump; means for rotating said housing; an
5 output element rotatable about said axis and arranged to receive torque from
6 said turbine; a fluid operated bypass clutch arranged to transmit variable torque
7 between said housing and said output element independently of said turbine;
8 said clutch including a first part rotatable with said housing, a second part
9 rotatable with said output element, and friction generating means operable to
10 transmit torque between said parts with and without slip with attendant
11 generation of friction heat during operation with slip; first and second plenum
12 chambers containing bodies of hydraulic fluid at variable pressure with the
13 provision for fluid flow between said chambers past said friction generating
14 means, wherein said housing includes a cooling surface which engages said
15 clutch and includes wherein said radially directed grooves which are imprinted

16 into said surface and which terminate outside an outer radial border and inside
17 an inner radial border of a friction lining associated with said housing.

1 129. (Previously presented) The torque converter of claim 128,
2 further comprising torsional vibration damping means operating between said first
3 part and at least one of said second part, said turbine and said output element.

1 130. (Previously presented) The torque converter of claim 128,
2 further comprising a stator provided in said housing intermediate said pump and
3 said turbine.